

REMARKS

This paper is presented in response to the final official action dated April 13, 2009, submitted with a Request for Continued Prosecution wherein claims 1-19 are pending. Claims 1, 3-5, 8, 10-12, 15 and 17 have been rejected and claims 2, 6, 7, 9, 13, 14, 18 and 19 have been objected to.

By this amendment, claims 1-19 have been canceled and claims 20-41 have been added.

Therefore claims 20-41 are at issue.

For clarification, the term “ADSL low rate signal” has been amended to “signal sequence of a low band of a data communication band used by a digital subscriber’s network.”

In the present application, the signal band of a digital subscriber’s network, e.g., Asymmetric Digital Subscriber Line (ADSL), includes a voice signal band and a data communication band, and the data communication band includes a low band and a high band. In the embodiment of Fig. 1 of this patent specification, a telephone 13 uses a voice signal band, and a home automation equipment 14 uses the low band of the data communication band, while a computer 15 uses the high band of the data communication band. This is supported by Equation 1 of this patent specification and the description thereof as well.

Accordingly, this amendment is considered to be made within the scope of the originally filed patent application and drawings.

Claim Rejections – 35 USC 103

The digital subscriber’s network terminal of claim 1 does not use the voice band but the low band of the data communication band used by a digital subscriber’s network. Accordingly, the low band of the data communication band used by a digital subscriber’s network in claim 20 signifies not a signal band for voice communication but the low band of a signal band for data communication.

The digital subscriber's network terminal of claim 1 uses the low band of the data communication band used by a digital subscriber's network as a signal band for home automation communication.

The digital subscriber's network terminal of claim 1 maps an output signal of a home automation service channel module to a signal sequence of the low band of the data communication band used by a digital subscriber's network. Mapping an output signal to a low-band signal sequence is implemented through a computation process, e.g., DSP, and it does not require the use of a physical filter.


Since these technical features have not been disclosed or explicitly or implicitly suggested in the prior art, Applicants submit the invention of claim 20 is patentable.

Meanwhile, since the other independent claims 26, 32, and 37 also include the aforementioned technical features, Applicants submit they are patentable as well.

Should the Examiner wish to discuss the foregoing or any matter of form in an effort to advance this application toward allowance is urged to telephone the undersigned at the indicated number.

Dated: June 23, 2009

Respectfully submitted,

By 
Thomas K. Stine

Registration No.: 32,310
MARSHALL, GERSTEIN & BORUN LLP
233 S. Wacker Drive, Suite 6300
Sears Tower
Chicago, Illinois 60606-6357
(312) 474-6300
Attorney for Applicant